

**WHAT IS CLAIMED IS:**

1. A method for manufacturing a wood chip capsule, which comprises the steps of:
  - (a) manufacturing a wood chip;
  - (b) drying naturally to 10~40% water content; and
  - 5 (c) permeating more than one selected from the group consisting of fertilizer, pesticides and plant growth regulator into the wood chip prepared in the step (a) by pressurized method or immersion method.
- 10 2. The method for manufacturing the wood chip capsule of claim 1 in which the pressurized method is maintained at 1~40 kgf/cm<sup>2</sup>.
3. The method for manufacturing the wood chip capsule of claim 1 in which the pressurized method is maintained at the range 720 mmHg-760 mmHg vacuums for fertilizers, pesticides and plant growth regulator to be permeated sufficiently into the  
15 wood chip.
4. A method for controlling a dissolving-out velocity of fertilizer, agriculture pesticide or plant growth regulator from the wood chip capsule by changing size of the wood chip mentioned in claim 1.  
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5. A method for controlling a dissolving-out velocity of fertilizer, agriculture pesticide or plant growth regulator from the wood chip capsule by changing kind of the wood chip mentioned in claim 1.
- 25 6. A method for controlling a dissolving-out velocity of fertilizer, agriculture pesticide or plant growth regulator from the wood chip capsule by coating the wood chip mentioned in claim 1 using coating substances.

7. The method for controlling a dissolving-out velocity of fertilizer, agriculture pesticide or plant growth regulator from the wood chip capsule in claim 6 by using mixture of more than one selected from a group which comprises calcium, magnesium, iron, manganese, copper, zinc, silicon, magnesia, clay and lime or one  
5 selected from a group which comprises peanut hulls, yeast-containing waste material and fish waste material as said coating substance.
8. A wood chip capsule manufactured by a method, which comprises the steps of:
- (a) manufacturing a wood chip;
  - 10 (b) drying naturally to 10~40% water content; and
  - (c) permeating more than one selected from the group consisting of fertilizer, pesticides and plant growth regulator into said wood chip by pressurized method or immersion method.
- 15 9. A using method for the wood chip capsule, which comprises the steps of:
- (a) manufacturing a wood chip;
  - (b) drying naturally to 10~40% water content;
  - (c) permeating more than one selected from the group consisting of fertilizer, pesticides and plant growth regulator into said wood chip by pressurized method or  
20 immersion method; and
  - (d) mixing at different rates according to the uses and applying the wood chip capsule produced said step (c)
10. An apparatus for manufacturing a wood chip capsule consisting of:
- 25 an electric controller 10, which senses and controls on/off operation of a power switch 8 supplying an electric current ;
  - a vacuum pump 12 operated by previously fixed information of said electric

controller 10 ;

a mixing tank 6, which becomes vacuum inside due to connection to a vacuum pipe 16 which has an aperture valve of vacuum operated by a signal of said electric controller 10, is equipped with an aperture for chip 4 and a pressure gage 20  
5 on the upper, has an exit valve 36 in exit pipe 34 connected to the lower and is electrically connected to pressure gage, an indicating instrument and a recorder;

a tank of solution 26 which is connected and set to a pipe of solution 22 equipped with a check valve 28 and an aperture valve of solution 24 operated by signal of the electric controller 10 to supply with definite amount of solution to said  
10 mixing tank 6; and

a high pressure pump 14 which is connected and set with a high pressure pipe 30 equipped with a high pressure valve 32 diverged from said a pipe of solution 22 and operated by signal of the electric controller 10.